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UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau—Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 3, 1937.

Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Scattered showers and warm weather prevailed during the forepart of the past week, with unseasonably cold temperatures during the latter part of the period, especially in the western and central sections. Beneficial rains reached all parts of the State on Saturday and Sunday. Snow, several inches in depth, fell in some of the higher mountains in western counties. Rainfall during the week was lightest in the Phillips County and Yellowstone County areas, while heavy downpours, together with hail, occurred in some of the localities in southwestern parts of the state on July 31 and in southeastern and northeastern sections on August 1.

The cooler weather which prevailed at the close of the week has been beneficial to late seeded crops, which are still in the growing stage. A small percentage of spring wheat seeded after June rains in the north central part of the State now has a reasonable chance to make a grain crop. The early seeded grain crops are progressing towards normal maturity. Harvesting of winter wheat with binders has been under way with a small percentage of combining already completed. Combining of spring wheat is just beginning in the northern areas. The quality of grain is generally good in the central third of the State, and in southeastern and western areas, which have not suffered excessive heat during the latter part of the growing season. In the northeastern part of the State and in parts of central Montana, many wheat fields are being harvested with headers and all efforts are being made to recover seed. Thistles have made rapid growth in grain fields since the June rains and in the poor wheat areas the crop is being cut for hay. Grains in irrigated areas are reported in good condition and high average yields are in prospect, especially from the south central parts of the State. Yields on dry land farming areas vary widely. Irrigated crops are making rapid growth.

Harvest of the first cutting of alfalfa has been completed, and the second crop is almost ready to cut in some irrigated areas. Wild hay harvest is under way in southwestern Montana. Ranges are making good growth in the central third, the southwestern, and in southeastern parts of the State. Some additional deterioration has taken place in western counties, which have received below normal precipitation during the past month. In the northeastern area, grass growth has not responded to the heavy rains received in the last two weeks as well as would be expected. The outcome of late seeded feed crop is still doubtful, but thistle growth is of benefit as livestock feed. Livestock is generally in good condition. Some movement has already taken place in extreme western counties, and in eastern and northeastern counties. In all other areas, movement will not begin until the present range grasses are fully utilized.

Grasshoppers are doing extensive damage in eastern and northern counties and in scattered areas in Meagher, Park, Madison, and Jefferson counties. Crickets are also doing some damage, but the intensive control programs have effectively checked the progress of this insect in most areas. Grasshoppers, which are on the wing now, are reported as the greater menace.

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TEMPERATURE AND PRECIPITATION DATA, WEEK ENDING AUGUST 3, 1937

Station	Temperature		Sunshine Percent of Possible	Precipitation (inches and hundredths)		
	Highest	Lowest		Total This week.	Total since April 1, 1937	Total since Apr. 1 to Aug. 4, 1936.
Billings	96	50	*	0.15	6.92	4.61
Bozeman	87	39	*	0.49	9.48	4.46
Cut Bank	90	45	*	0.45	6.43	4.94
Fort Peck	95	51	*	0.32	4.14	2.25
Glendive	97	52	*	0.44	6.47 #	4.79
Great Falls	92	44	*	0.83	5.45 #	4.40
Havre	94	42	64	0.40	7.04 #	3.38
HELENA	90	40	68	0.99	5.00	4.93
Kalispell	84	42	78	0.40	5.61 #	4.18
Lewistown	90	36	*	0.54	6.48	6.06
Malta	93	41	*	0.01	6.46	3.17
Miles City	94	54	82	1.29	6.62 #	2.54
Missoula	90	42	54	0.29	3.54 #	4.66
Poplar	94	46	*	0.53	5.33	3.73

Corrected to agree with July totals.

*No data.

The following county summaries of crop conditions for the week ending July 31, 1937 are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BEAVERHEAD: Light to heavy rains general over county the past week. Wild hay harvest delayed in some sections due to rain. Stacking of first crop of alfalfa complete; yields fair. Indications are for a fair to good pea crop. Ranges good. No activity in wool or lambs.

BIG HORN: Light and scattered showers fell over the county during the past week, improving growing conditions materially. Winter wheat crop about 40%; combined yields from 5 to 25 bushels. Corn, beans, and beets making fine growth in the valley. Small grain crop the best in years. Second crop of alfalfa about ready to cut. Ample water for late crops. Range grass ripening and cattle firmer in flesh. Range never was better on the Crow Indian Reservation. The new sugar processing plant and the County Court House projects are absorbing surplus labor. Mormon crickets laying eggs. Poisoning still going on.

BLAINE: A light rain Monday night accompanied by a sharp electrical storm brought .62 inch precipitation. Cutting of spring wheat on irrigated farms started the first of the week. Some wheat on dryland farms will be ready for harvest within a few days.

CARBON: Light showers reported during the week on three days in Belfry area, and two days in Red Lodge area. Cooler temperatures reported, ranging from 47° to 36°; precipitation .10 inch. Farmers making a start on wheat cutting over the entire county. Grain not quite so ripe in Luther area where much of the grain is lodged. Some of the first crop being threshed at present time. Wheat of very good quality. Second cutting alfalfa in progress. Feed supplies plentiful. Stock in very good shape. Range grasses maturing, and ranges well seeded. Farm labor scarce.

CASCADE: Cool, cloudy weather has been of considerable aid to crops the past week, with a few scattered showers adding some moisture. Winter wheat harvest well under way and yields range from 2 to 20 bushels per acre. This applies only to the small per cent of winter wheat which remains for harvest. It is estimated that the wheat crop will be between 20 to 30 per cent of normal. Crops seeded late in June not coming through as expected, and only small per cent of acreage will be harvested for grain. Mustard which was seeded late also shows very poor possibility of producing any amount of crop. Crops on irrigated land are in excellent condition and will produce normal yields. Second cutting of hay is being put up in many sections with good yields reported. Summer fallow in better condition than any recent year. Livestock in good condition with ample forage and grass available. No damage from insects has been reported, as complete control has been obtained through the application of poison to both grasshoppers and crickets and the grasshopper population has diminished to a place where no damage will be done. This decrease in population is due to both poisoning operations last year and this, and to a heavy mortality due to natural causes.

CHOUTEAU: Dry hot weather has prevailed throughout the week, with some scattered showers. Winter wheat harvest getting under way with very short yields, but quality is good. Spring wheat fields are ripening fast and the dry hot weather tends to reduce yields. A large per cent of the land put into crops last spring will not be harvested, and it is estimated that about 15% to 20% normal wheat production will be harvested. No improvement in range conditions. Hopper infestation widely scattered and not serious. Crickets well under control.

CUSTER - POWDER RIVER: Continued warm weather with no precipitation. Harvest of grain and hay continues in irrigated areas, with yields fair to good. Other irrigated crops continue to make good growth. Practically no harvest on dry land. Ranges drying and need rain, but grass curing and sufficient feed still available. All stock gaining and in thrifty condition. Insect damage subsided.

DANIELS: No precipitation. Russian thistles attaining fair growth. Some feed crops were planted in the last two weeks, but it is questionable if anything but pasture will result. Pastures did not respond to rains as much as expected and grass growth is very slow. Livestock movements out of county slowed up considerably with the hope that late forage crops would produce some feed. Nearly all farmers and farm laborers in need of employment.

DAWSON: Weather seasonable throughout week. Harvesting general throughout county, with bulk of cutting being done with header. Crops will produce seed, and over scattered areas somewhat more. Livestock making seasonal development, with producers in northern end of county beginning to consider some fall movement.

FALLON - CARTER: Precipitation past week 0.21 inch. Slightly cooler weather. Grains filling good. Harvest about half done. Grasshopper damage very heavy in sections. Late seedings showing good stand. Corn prospects good, especially for fodder. Livestock condition good. Shortage of harvest hands.

FERGUS: Hot and dry during week. Spring wheat ripening rapidly during hot weather with some decrease in yield due to this condition. Winter wheat harvest under way, with some fair yields reported, although yields generally poor. Livestock making satisfactory gains. Plenty of grass and water to carry them until marketing time.

GALLATIN: Weather cooler; increased amount of wind and increased number of local showers, some of which have had a trace of hail, with no damage reported. Grain harvest of winter wheat continues with binders. Combining will start first of next week. Grain ripening slowly and naturally with excellent yield prospects. Canning pea harvest nearing completion. Second cutting of hay being made. Timothy hay also being harvested. Irrigated pastures and a large percentage of the dry land pastures continue in excellent shape, giving a longer pasture season this year than many years previous.

GARFIELD - PETROLEUM: Generally warm, dry, and clear, with scattered showers and cooler at end of week. Considerable variation in growing conditions due largely to the criss-crossing of showers and a scattered location of areas where moisture has been more favorable. Few scattered fields of spring wheat being headed with prospects for two to five bushels of fair seed. Other fields that will produce feed generally harvested by mowing to get all thistles and greatest amount of forage. This harvest taking place on nearly 25% of the seeded acreage. At least 50% of the corn and other feed crops seeded show good prospects for some feed, especially in areas where recent moisture has become available. These crops are not normally advanced because of lateness of seeding and lack of moisture. Condition of all livestock reported as about average. Very little movement of stock as yet. In some areas folks are beginning to look for additional pasture. Some livestock will possibly change hands within the area.

GLACIER: Earlier part of week rather warm; latter part cooler. General growing conditions good. Slight showers Friday, and several scattered rains throughout the week. Wild hay crop quite good this year as compared with the last few years, and the majority of wild hay is now being stacked. Some early oats being harvested and wheat crop looks excellent. Wheat heads are about one-fourth filled and on some of the drier areas in the county they are quite well advanced. Gardens and other crops in extremely good shape. Because of the abundance of good feed and grass, livestock in very good condition.

HILL: - Precipitation of about 0.05 inch has been of considerable benefit to late sown grain and brought about more normal conditions for ripening of early grain. Early feed crops have been cut during past week and general heading of grain will start next week. Range conditions fair to good, and livestock in good condition.

JUDITH BASIN: Local showers Wednesday. Wind velocity moderate. Winter wheat harvest started; yields very low. Spring wheat will be harvested late. Only about 30% of the planted acreage is expected to be harvested in the county. Late spring wheat will make hay on about 50% of the acreage. Crickets threaten heavy damage in northwestern portion of county. Range extremely short except in high mountain areas and low bottom land; most of the foothills are brown. Shipping of livestock will start soon. Winter feed extremely short. About 50% of the farmers will need aid or work this fall and winter.

LAKE: Scattered showers helped potatoes and beets. Winter grain and peas being harvested. Some spring grains lodged because of showers. Beets and potatoes making good growth. Range animals in good condition and plenty of feed. Farm livestock in good condition but pastures are getting short. Cricket control work completed with satisfactory results. Grasshoppers doing damage in parts of county.

LEWIS & CLARK - BROADWATER: Two small rains in southern end of Lewis & Clark County. Fairly good growing conditions during week. Early potatoes in Helena Valley yielding good. Combining of rye and winter wheat beginning gradually in East Helena area. Second crop of alfalfa generally making good growth. Some fields held back by grasshoppers. A small amount of spring grain being harvested in the Helena Valley. Livestock situation good. Some range areas drying fast. Grasshopper poisoning is diminishing.

MADISON - JEFFERSON: Several showers and heavy rains fell in widely scattered areas during week. In Silver Star area, the third serious cloudburst of the season extended earlier damages to roads, ditches, and crops. Heavy hailstorm reported from vicinity of Mammoth in South Boulder Canyon, which was not in a farming area. Growing conditions very good, with ranges still holding some of their green color even though there were some drying days during the week. Harvest of winter wheat with binders and some early planted spring wheat has begun. Wheat not ripe enough yet to be combined. Rains again delayed haying over a large area. Prospects for second crop good except in hopper areas. Livestock conditions are still very favorable, with ranges in better condition than they were any time in June, in spite of grasshoppers and Mormon crickets.

MEAGHER: Scattered showers; temperatures high. Fair crops of alfalfa and timothy. Harvest just beginning. Lower ranges curing fast; upper ranges green. Livestock doing very well. Some lambs sold at 8 to 9 cents. Late sales in 1937 wool at 31 to 33 cents. Labor demand and supply about equal. Insect damage serious in localities, both to crops and range.

MISSOULA: Hot and dry first of week; cooler end of week. Few scattered showers, but not enough precipitation to benefit crops. Spring grain ripening. Harvesting started on earlier crops. First crop hay practically completed; yields fair. Potatoes and sugar beets making good growth. Sour cherries and raspberries still coming on market; good yields. Irrigation water plentiful from Missoula River but short from other streams. Mountain ranges holding up well. Pastures generally shorter than normal.

MUSSELSHELL - GOLIEN VALLEY: Continued hot, with local showers. Some very heavy showers in some sections of the counties. Winter wheat harvest in full swing. Many farmers have reported up to 20 bushels per acre while others have reported as low as 2 bushels. Very little spring wheat will be harvested. Most of it is so thin and short it will not pay. Emergency feed crops such as corn, seem to be advancing quite well. Local showers have aided them considerably. Livestock in good condition. Plenty of feed and water.

PARK: Showers during week with generally warm weather. Practically all of first crop of alfalfa hay in stack. Some of it badly damaged by rains. Winter grain mostly in the shock and binding of spring grain will begin next week. Livestock in good condition. Labor balanced. Grasshoppers making serious inroads on grain and checking second crop alfalfa.

PHILLIPS: Most of the county dry. Shower reported in southern part of county. More rain needed for late seeded feed crops. Approximately 20% of farmers will harvest some grain. Estimated yields will run from 2 to 10 bushels. Valley crops good, with sugar beets about average. Livestock condition good. Range fair; water plentiful in most sections. Winter feed prospects better than last year except in northeast corner of county.

PONDERA: Good showers Wednesday and Friday nights of this week covering main section of county in a southwesterly direction. Balance of days cool and breezy. Showers materially aided approximately 8,000 acres of reseeded wheat and improved grain and hastened the ripening of oats and barley. It also will help to fill heads on early seeded grain now standing. Feed crops as well as wheat and commercial cash crops were benefitted. The rain increased moisture reserves on all recently worked summer fallow that was hardened by previous rains and cloudbursts. Considerable range and non-crop pasture land was naturally reseeded by the maturity of Buffalo and Gramma grasses, chiefly, together with the western wheat and rye grasses.

PRAIRIE: No precipitation; weather hot. Crops ripening rapidly. Weeds on range have all dried up. Thistles cured green before ripening. Western part of county dry and entire county infested with grasshoppers. Livestock continues to improve in condition despite insects and flies.

RICHLAND: No precipitation; hot and dry entire week. No crops in dryland area except for a few scattered fields. Crops in irrigated valley good except where grasshoppers and army worms have done some damage. Some livestock being shipped out but due to the improvement of ranges two weeks ago by the moisture received then, sheepmen are not shipping as heavy as expected. Many dryland farmers seeking employment in the valley, and many are waiting for employment by the W.P.A. Some grasshopper damage in irrigated areas. Army worm situation has improved considerably.

ROOSEVELT: Local light showers Wednesday; moderately warm temperatures. Weather conditions favorable for growth. Considerable summerfallowing has been done in east and central part of county, but drawing to a close latter part of week. Harvest limited to only a few fields in the county being harvested for seed. Grasshoppers damaging ranges, feed crops, and some small irrigated patches along Missouri. Poisoning greatly increased during week. Livestock situation unchanged. Some grass growth in scattered sections of county, but a large part of the northwestern section did not receive enough moisture from recent rains to benefit range. Farmers anxious to get work.

ROSERUD: Weather hot most of week. Spotted showers over county Thursday replenished water holes and helped range feed in some areas. Dryland grain harvest about two-thirds completed. Fair yields reported from few isolated areas. Crop in general very light. High percentage of wheat acreage either abandoned or cut for hay. Heavy yield of wild hay being cut in Tongue River area. Livestock doing well throughout county. Range grass cured prematurely in some areas.

SANITERS: Precipitation 0.19 inch. Generally clear, with scattered local showers. Continued dry weather. Very little crop growth except under irrigation. Harvesting of winter wheat practically completed, with about 5% normal crop. Spring grain being harvested; very short and low yield account of low moisture conditions. Water supply for irrigation running very low. Seed peas being harvested with fair yield. Alfalfa and clover seed fields setting nicely, with prospect for good yields. Livestock in good condition. Heavy shipments to market. Higher range holding up well. Quite a number of forest fires from lightning, but of minor importance.

SHERIDAN: Local showers throughout the county, with some hail in a small area. Continued hot weather. Thistles developing rapidly. Emergency crops do not give much promise of developing to any great extent. Grasshoppers continue to be an important factor in destroying late crops. Some movement of livestock out of the county continues. Continued need for work relief exists.

STILLWATER: Weather generally hot. Scattered showers in county and some hail. Grain ripening fast and harvest in full swing. Some damage from insects and drouth, but crop conditions better than for some years. Livestock in good condition. No surplus of labor.

SUN RIVER IRRIGATION PROJECT: Light showers latter part of week. Crops continue in good shape. Some second cutting alfalfa starting. Pea harvest will start in few days. Pastures getting dry.

SWEETGRASS: Precipitation 0.20 inch. Growing conditions for irrigated crops good. Alfalfa hay all in stack. Native and tame hay harvest under way with good yields. Fall rye mostly harvested for hay; balance in shock. Winter wheat harvest under way, with small acre yields. Spring grains under irrigation excellent, with some insect damage. Harvest two to three weeks away. Spring grains on dry land suffering for want of moisture with prospects of better yields over winter grains. Livestock improving on good range.

TETON: Scattered showers throughout the county on Wednesday night, but moisture not sufficient to be of material benefit. Saturday morning 0.54 inch of precipitation was recorded at Choteau. The rain extended eastward as far as Dutton. Recent rains will be of some help to late crops. Harvesting of wild hay is in full swing, with yields running around 15 to 70% normal. This past week the range has dried up considerably; however, the recent rain will improve conditions. Livestock fair to good.

TOOLE: Hot and dry most of week. Scattered light showers latter part. Continued dry weather in most of county has reduced yield of wheat, but practically all farmers are expecting some crop. Considerable small grains, principally barley, rye, and oats, are being cut for hay at the present time. A few places are expecting to harvest wheat in about a week, but most of the harvesting will be later. All livestock in good shape; plenty of grass.

VALLEY: Past week cloudy and windy, with three very warm days. Trace of precipitation along Milk River only. Dry land areas receiving none. Beets coming along very good at this time. Alfalfa is practically ready for second cutting. Some fields of irrigated wheat will be ready for harvest within next few days. A few dryland fields are being harvested at this time, particularly in the low spots. No entire fields will be harvested on dry land areas. Many cutting and salvaging their wheat and oat fields for some feed. Thistles making it possible for them to get this feed. Corn in the irrigated section is showing up very good the last ten days. Livestock holding their own; very few moving at this time.

WHEATLAND: Hot and dry first part of week; latter part scattered showers; cool temperatures. Winter wheat harvest started this week in American Fork area. Cutting of first crop of alfalfa in the county completed, and harvesting of wild hay started. Some lambs have been contracted during the week.

WIBAUX: No precipitation; warm weather. Grasshopper poisoning campaign still on, but hoppers flying in so fast that poisoning is very ineffective. Hoppers cutting heads on crops left for grain. Very small percentage of county acreage being cut for grain. Fields cut for grain will have a very low yield per acre. Livestock in north half of county is going out fast. Several cars shipped this week. Grasshoppers are taking range in entire county.

YELLOWSTONE: Precipitation 0.08 inch; weather generally cooler, with growing conditions excellent. Dryland areas in the midst of winter wheat harvest with practically all sections getting from 10 to 30 bushels per acre, with the exception of the northwest section which has no crop. In the irrigated areas, farmers are busy putting up second crop of alfalfa, which is good with the exception of that under the B. L. & I. ditch, and haying about half completed. Beans and beets in excellent shape. Spring wheat harvest also under way in irrigated areas, with yields running from 30 to 50 bushels. Gardeners selling considerable produce, but is a little later than usual. Livestock in good condition. Range all in good shape. Local rains and showers in range areas freshened up since rains. Most lambs contracted at from 8 to 8½¢. Cricket program tapered down, with crickets considerably less than a few weeks previous. Grasshoppers moving in from dry land areas, but as yet have not done very much damage in irrigated areas.

Helena, Montana,
August 4, 1937.

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 10, 1937.

Issued jointly by the Bureau of Agricultural Economics and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Mostly hot and dry weather prevailed in the eastern half of the State until the closing two days of the past week, when conditions became cooler and unsettled, and some scattered showers which were too light to be of benefit were received. Hot, withering winds, accompanied by some soil-blowing, occurred on the 5th and 6th in east central and northeastern localities. Growing conditions during week were more favorable in the western half of the State, with beneficial showers occurring only in scattered areas west of the Divide.

Harvesting of winter wheat was nearing completion in some areas, while in others operations are well under way. More than half of the crop was already harvested in the eastern and southern areas. Irrigated areas are harvesting a heavy crop of grain. Harvesting of spring wheat with binders is also in progress, but combining is not yet general in the northern counties, where cool weather prolonged the ripening period. Hot winds in the eastern and northeastern parts of the State brought the growing season nearer to the close, and depreciated late seeded seed crop prospects. Grasshoppers in these latter areas continued to further reduce yields in standing grain. Reported yields of dry land wheat range from 1 to 5 bushels in the less favored areas to 8 to 12 bushel averages in the more favored sections. The harvest of crested wheat grass is under way, with fair seed yields reported. A start on the second cutting of alfalfa hay was made during the past week. Harvest of the big wild hay crop was resumed in the Big Hole Basin area, after some delay caused by hail and rains during the previous week. Dry land areas continued the harvest of marginal grain fields and thistle growth for hay. Grass and weed growth on ranges continued to show improvement in all except eastern and northeastern areas, where hot winds cured the grass and thistles and stopped further growth. Grasshoppers have done heavy damage to ranges in northeastern and eastern counties.

Movement of livestock to sales rings and markets was reported from Wibaux and surrounding northern counties, and from the Fergus and Judith Basin county area. Range feed as well as feed crops in these areas are short, and stockmen prefer to ship while the stock is still in good flesh. The balance of cattle movement was normal, and consists mainly of fat grass cattle from western counties and odd lots from all parts of the State. Lambs contracted during the week went at prices ranging from 8 to 8 3/4 cents and up. Demand for ewe lambs was strong. Wool activity has tapered off during recent weeks. Water holes and reservoirs as a rule are supplying adequate supplies of stock water. Irrigation water supplies from streams are ample, in all areas except parts of Beaverhead County, where the second cutting of tame hay will be dependent on the rainfall received.

Precipitation records for the growing season (April 1 to July 31, inclusive) show that the greatest deficiencies of rainfall as compared with normal exist in a large area of the northeastern part of the State, with smaller deficiencies found in the area comprised by the counties of Judith Basin, parts of Cascade, Teton, Chouteau, Fergus, Wheatland, and Golden Valley. The lower portion of the Bitterroot Valley west of the Divide is also considerably drier than normal. Reference to the precipitation map included with this report outlines the areas showing the greatest and least amounts of rainfall received during the growing season.

TEMPERATURE AND PRECIPITATION DATA, WEEK ENDING AUGUST 10, 1937

Station	Temperature		Sunshine Percent of Possible	Precipitation (inches and hundredths)		
	Highest	Lowest		Total This week.	Total since April 1, 1937	Total since April 1 to Aug. 11, 1936
Billings	97	53	*	T	6.92	4.64
Bozeman	88	45	*	0.02	9.50	4.52
Cut Bank	85	44	*	0.07	6.50	4.94
Fort Peck	98	56	*	0.04	4.18	2.25
Glendive	102	50	*	0.02	6.49	4.80
Great Falls	92	53	*	0.04	5.49	4.44
Havre	94	52	86	0.00	7.04	3.40
HELENA	90	53	81	0.14	5.14	5.02
Kalispell	86	48	70	0.17	5.78	4.19
Lewistown	93	38	*	0.04	6.52	6.13
Malta	96	45	*	T	6.46	3.19
Miles City	100	56	92	T	6.62	2.55
Missoula	90	46	76	0.13	3.67	4.66
Poplar	98	51	*	0.00	5.29	3.73

*No data.

The following county summaries of crop conditions for the week ending Aug. 7, 1937 are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BEAVERHEAD: First part of week much cooler; light snow in higher sections of county; light frosts reported; not much precipitation; drying winds. Several wild hay crops reported damaged by hail in Big Hole district; haying operations resumed in wild hay sections. Livestock in good condition; ranges improved by light snows; activity in wool and lambs slow.

BIG HORN: Scattered showers early in the week have been followed by extremely warm weather. Growing conditions were not so favorable. About 60% of winter wheat and 40% of the spring wheat already harvested. Second cutting of alfalfa under way. Cultivated crops doing well, including sugar beets, beans, corn, and potatoes. Range ripening and cattle in good shape. A few shipped to market.

CARBON: Light showers Saturday over most of the county. Weather hot and dry, with hot winds. Combining of dry land wheat. Greater portion of grain already cut. Second cutting of hay being completed in most sections, with good yields. Plenty of irrigation water available. Fair to good yields from grain harvest. Some damage through crickets reported. Livestock in fair condition. Range conditions good. Farm labor scarce.

CASCADE: Good rains last Sunday, August 1, improved prospects for harvesting some crops from late seedings, although at best these will be very light. Harvesting of winter wheat continues. Summerfallow for fall seeding is in better condition than it has been for the last four years. Second cutting of alfalfa started. Crop prospects on irrigated land best in years. Livestock in good condition. Labor situation normal.

CHOUTEAU: Continued dry, with scattered showers up to 0.80 inch in some localities. One hot day. Winter wheat harvest in full swing, with some spring wheat also being harvested with headers. Winter wheat running from 8 to 10 bushels and down. Spring wheat running around 5 bu. per acre. There is a total failure in some areas, where even a poor stand of thistle is the only covering. Range continued dry. Some need for Government projects. Grasshopper infestation light and scattered. Crickets are slowing down in movement, but a few crews are at work in some areas in the Highwood and other areas.

CUSTER - POWDER RIVER: Heavy rain Sunday afternoon, with high wind and some hail doing severe damage to grain and forage crops in irrigated area near Miles City. Hail also damaged some sugar beet crops. Total precipitation 1.26 inches, with 1.09 inches falling in ten minutes. Haying continues in range area under flood systems. Some dry land grain crops being harvested in southern Powder River County. All stock doing well. Grass and water ample. Weedy ranges burning.

DANIELS: One inch of precipitation fell over most parts of the county Sunday. Temperatures remaining high most of the week. Russian thistles being put up for hay. Grasshoppers damaging late planted feed crops. No harvest of late feed crops expected. Pastures in somewhat better condition, relieving livestock feed situation temporarily. Several farmers seeking employment outside of county. W.P.A. quota will not absorb all labor requirements. Webworms are prevalent. No damage to be done except to Russian thistles.

DAWSON: Quite a violent dust storm Sunday, with balance of week dry and warm. Harvesting under way, with grain prospects looking less promising than generally expected, due to the grasshopper damage. Hoppers and blister beetles doing considerable damage to fields and gardens.

FALLON - CARTER: No precipitation recorded for past week; drying winds. Early crops past all danger. Forage crops and late seedings need moisture. Grasshopper damage still going on. Corn is in good shape, but damage done from now on will depend on grasshopper activity. Range and pastures curing in good shape. Reservoirs still have water. Livestock in good condition. Shortage of labor not as acute as previously.

FERGUS: Hot and dry during week. Some local showers over county Sunday morning. Wheat harvest well under way. Territory tributary to Denton may have 300,000 bushels wheat or about one-half crop. Other sections will have less. East and north part of county will have very little grain. Hoppers have done some damage, but not in comparison to the number of hoppers present. Some livestock moving to market. Most stock in good condition. Water and feed will be sufficient to marketing time. Estimate that about 50% of remaining stock can be wintered in county; 50% going to market. Hoppers laying eggs.

GALLATIN: No precipitation. Cool forepart of week; warmer latter part. Grain harvest continues. Work principally being done with binders. Grain generally still too green for combining, although some fields being harvested by this method. Harvesting of second cutting of hay continues. Peas ripening rapidly. Prospects of high grain yields being realized and considerable trouble being experienced on fields under irrigation in harvesting badly lodged grain. Livestock condition excellent.

GARFIELD - PETROLEUM: Light precipitation. General growing conditions fair. Forage curing very rapidly; in need of moisture. Harvesting well under way or entirely completed. Most small grain to be used for hay. Small grain to be threshed will average 1 to 5 bushels per acre. Livestock in fair shape. Large percentage of stock to be marketed due to shortage of winter feed.

GLACIER: Cool with few local showers in the last half of the week. Soil moisture conditions are fair. No killing frosts reported as yet. Hay practically all cut and second crop of alfalfa coming along in very good shape. The wheat fields

(Continued on Page 2.)

GLACIER: (Cont'd.) show signs of turning. Some early harvest reports show 8 bushel on winter wheat stubbed in, and 10 bushel of spring wheat on fields that were rather badly burnt. Indications are that generally harvest will start in about ten days or two weeks. Feeds are rather plentiful and there are some requests for hay and livestock marketing information. Livestock are in excellent condition. Some lambs and cattle have been shipped and additional buyer demand still exists.

HILL: .30 inch precipitation for the past week. Precipitation during the past week has improved the conditions of late sown grain, corn, and late forage crops. Continued cool weather and light rains have delayed ripening of the grain and as a result, harvest has been set back a few days. Grain is being harvested with headers. Combining will not start until the middle of next week. Slight improvement in range conditions. Livestock in good condition. Labor situation balanced.

JUDITH BASIN: Some scattered showers. Temperatures moderate; frost during night of August 1. Fall wheat harvest well under way. Yields running from 3 to 8 bushel on grain being harvested. A great deal of the fall wheat will not be harvested. Crickets doing heavy damage in northwest part of county. Soil blowing moderate. Weed growth heavy and in many cases will interfere with harvest. Ranges exceptionally short. Heavy shipments of livestock expected. Winter feed situation critical, and feeding will start early. Most of the lambs and wool contracted or shipped. Heavy demand for work coming from farmers. 400 farmers will be seeking employment by the end of the month. Over 200 already looking for work. Between 200 and 400 farmers will be forced to call for relief if employment is not available in the near future.

LAKE: Light to heavy rains over entire county first part of week. Weather conditions favorable for crop development. Grain, mustard, pea, and second crop alfalfa harvest in full swing. Yields slightly above average being reported. Potatoes and beets making excellent growth. Clover seed setting good, with prospects for good yields. Livestock in good condition. Grasshoppers continue to migrate and some damage being done.

LEWIS & CLARK - BROADWATER: Scattered rains and, in general, good growing and harvesting weather. Winter wheat harvest in full swing. Some cutting of spring grain. Yields spotted and same or somewhat higher yields than last year. Second cutting of alfalfa appears very promising. Recent scattered rains have improved ranges in some areas, and while the grass situation is somewhat spotted, it is considerably ahead of a year ago. Livestock in good condition. Practically no grasshopper poisoning being done in either county.

MADISON - JEFFERSON: Heavy showers occurred over most of both counties last Saturday afternoon and Sunday morning, giving crops the first soaking they have had at this season of the year in several years. Temperature moderately warm and growing conditions good. Haying operations have been extended to include wild and tame meadow hays. First cutting of alfalfa is all in the stack, and the prospects for a good second cutting look more promising than previously. Dryland farmers are putting their combines in shape, but have not yet started operations. Some irrigated barley about ready to cut, but as a rule it will be several days before harvesting on irrigated land will get under way. Very favorable in nearly every district. Grasshoppers are damaging the range in eastern Jefferson County, and near Norris and Ennis. More good men could be used if they were available.

MEAGHER: One rain. Hail in south portion of county. Growing conditions good. Grain harvest well along. Second crop of alfalfa doing fair; good if getting sufficient water. Wild hay harvest well begun; fair to good yields reported. Hail destroyed hay crops, grain crops, and much grass on two ranches near Ringling. Serious damage on other ranches east as far as Lennep. Livestock in very good condition. Good portion of lambs sold at 8 to 8 3/4 cents per pound. Few cattle sold yet. Demand for labor ahead of supply. Blister beetles damage to gardens continues. Crickets beginning egg laying. Hopper damage decreasing a little.

MISOULA: Scattered showers first of week. Cool to moderate temperature for week. Frost in higher elevations first of week. Good growing conditions. Potatoes and beets making good growth. First cutting of hay completed; less than average yields; second cutting well under way. Spring grain is being harvested. Some winter wheat threshed; yields fair. Livestock in good condition. Mountain ranges good. Pastures short.

MUSSELSHELL - GOLDEN VALLEY: The weather was cool until the last two days of the week, when the thermometer rose to 103. There has been no rainfall in either county this week. Things are very dry, and considerable dust is blowing. The growing season is over, and harvest is in full swing wherever there will be a harvest. Most of the spring wheat has been cut for hay. The livestock are still in very good condition.

PARK: Cold first part of week; warmer latter part. Grain ripening very fast and spring grain harvest beginning. Livestock in good condition. Labor situation balanced. Cricket poisoning coming to a close, as they have reached egg-laying stage. Grasshoppers doing heavy damage in northern end of county, but poisoning campaign practically over.

PHILLIPS: No precipitation. Hot, moderate winds. Light frost reported, but little damage. Combining grain started in various dryland sections, with light yields, but fairly good quality reported. Crops in valley being harvested with good yields reported. Corn and other late forage crops on dryland showing effects of drouth, but will make considerable feed. Range in fairly good shape, and condition of livestock good. Probably no need to ship out any stock before normal shipping date.

(Continued on Page 3.)

PONDERA: Weather hot and windy. Light shower on Saturday of this week. Rains of the past two prior weeks, averaging 1.10 inches precipitation, are being reflected through general improvement in crop conditions throughout the county, and give more assurance to late and reseeded crops. Average county yield now estimated at approximately 12 bushels. Hay and grass crops show increased growth following recent general rain through the major production center of the county, thus further assuring feed reserves. Harvesting of a few oat fields begun on a few dry land benches. Some grain fields, together with Russian thistles, being cut for hay. Crested wheat grass stands throughout the county reported good, with a rather high yield of seed expected. Harvesting of crested wheat grass for seed nearly completed. Lambs selling at \$8.00 to \$8.35 per cwt. Little or no movement of livestock this week due to forage reserves responding to recent rains.

PRAIRIE: Weather warm and dry. Severe hail storm Sunday evening, which crossed Ten Mile Bench and another hail storm crossed Sheep Mountain and followed the divide and crossed southern Bad Route. Four feet of hail was washed in many of the reservoirs. Strong winds of Sunday evening damaged stacks of hay and headings. Harvesting well under way, with yields from three to ten bushels per acre. Grasshoppers are taking their toll, and reducing wheat yields. Livestock in good condition. Labor supply is ample.

RICHLAND: 1.05 inches of rain fell the forepart of week, with hot and dry weather continuing throughout the rest of the week. The hail which fell did considerable damage to feed crops which had promised a small amount of feed in the dryland sections of the county. No other crops to any extent in the dryland. Irrigated crops in good condition, with farmers beginning their second cutting of alfalfa hay. Although grasshopper and army worm trouble has lessened to a certain extent, farmers are still spreading some poison.

ROOSEVELT: Local showers varying from nothing to three inches in different parts of county. Hail destroyed about 75 per cent of the crops in the Poplar area of irrigated grain crops, and in the east Froid area of feed crops. Hoppers and sugar beet webworms numerous. Some hopper poisoning being done. Thistles are being harvested for feed throughout the county. Range has improved somewhat since recent rains. Continued need for work relief. Some farmers finding employment in harvest fields in eastern North Dakota.

ROSEBUD: Thunder shower Sunday brought about one inch of moisture to central part of county. High temperatures during week prevented grass and late crops from benefitting greatly. Some grain and thistles on dryland still being cut for feed. Threshing of irrigated grain under way, with good yields generally reported. Second crop alfalfa all in stack. Dryland corn and late forage crops suffering from lack of moisture and extreme heat. Prospects excellent for bumper crops of sugar beets and irrigated corn. Livestock in excellent shape throughout county. Reservoirs and natural water holes all supplying abundant water for the present. Prospects good for ample feed supplies.

SANDERS: Precipitation 0.58 inch. Good rain August 1 over most of county; balance of week clear and cool. Harvesting all grain crops generally completed, with low yields but mostly good quality. Threshing just starting. Field peas in shock; fair crop. Harvesting of second cutting alfalfa starting on irrigated meadows, with very little on dry lands. Truck and garden crops in good condition. Prospect for heavy potato and fruit crops. Livestock in good condition. Heavy marketing of range cattle and lambs.

SHERIDAN: Rain in all parts of the county during the week, varying in amounts from a trace to about an inch in some localities. High temperature continues. High temperatures and grasshopper damage have prevented the development of emergency crops. Sugar beet webworms have injured the thistle crop to a large extent. Movement of livestock to market and to pasture continues. Certification of a limited number of farmers to W.P.A. has alleviated the need for work relief to some extent.

STILLWATER: Weather generally hot and dry. Few scattered showers and lightening storms over county. Harvest in full swing. Grain ripening fast. Very good yields reported on irrigated land. Livestock in good condition. No surplus labor.

SWEETGRASS: Trace of precipitation. Crops maturing rapidly on irrigated lands due to hot winds. All dryland crops harvested. Harvesting starting on irrigated grains; good yields in prospect. Second cutting of alfalfa making good growth. Irrigation water from some streams getting low. Ranges showing damage from grasshoppers, approximately 50%.

TETON: 0.69 inch rain received since last report, which was a continuation of last week's rain, bringing the total for the 31st and 1st up to 1.43 inches. These rains revived the range considerably. Temperatures for the past week have been about normal. Harvest of early seeded wheat will begin this next week. The last rain, we believe, is going to help the late seeded crops to fill; however, weeds seem to be responding better than the crop. Most of the crops were too far advanced to be benefitted. Livestock in good condition.

TOOLE: Weather cool, with good rains over most of the county the forepart of week. Rains will delay harvesting of most fields, and will help considerably in filling out wheat in the later fields. Weed crop coming on will make harvesting difficult. Rains improved ranges. All cattle in good shape. Several operators looking for ewe lambs.

VALLEY: The Opheim area had a good rain Sunday evening, and light showers occurred in other parts of the northern county. A light frost Sunday evening in the Opheim area nipped tender vegetables and in some cases Russian thistles. Dry-land conditions show no improvement the past week. Irrigated areas are looking very good. Spring wheat harvest just starting in the irrigated sections. The beet crop, as well as all vegetables in the irrigated areas, in excellent condition at this time. Gardeners in the Milk River Valley area are beginning to sell produce. Second cutting of alfalfa well under way. Blue joint harvest practically completed. Practically no livestock moved the past week. Number of buyers in the county, but they are not offering very much. Very few lambs have been sold to date, and those sold at around 8¢. Ranges have deteriorated considerably the last two days, particularly Thursday, due to the hot wind.

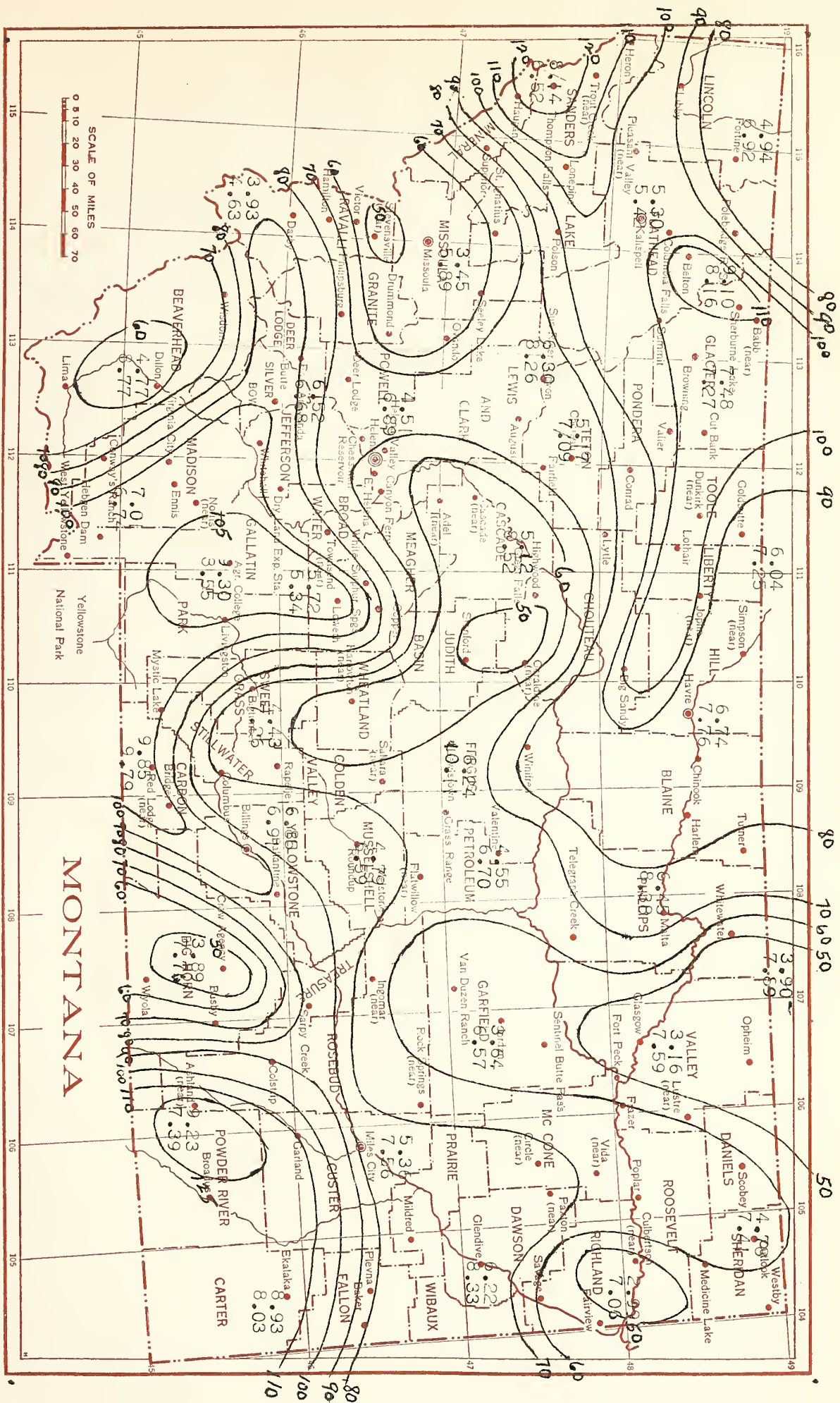
WHEATLAND: Local showers in the western part of the county the first part of the week. Spring wheat harvest has started. Yields will be very low; from two to five bushels. Hoppers have done severe damage to the range in the south and southwest part of the county.

WIBAUX: Heavy storm Sunday evening, August 1. Hail and rain in northern part of county. No precipitation in the remainder of the county. Rain badly needed for corn and other late emergency feed crops. Some combining started, with yields of one to three bushels reported. A few a little better. Fifteen carloads of cattle shipped this week. Grasshoppers still are very bad. Crops are being harvested or cut for hay as fast as possible. Livestock still in fairly good condition. Surplus of labor.

YELLOWSTONE: No precipitation. Cool first part of week. Hot and windy latter part. Harvest all over county in full swing, with some threshing already started. Second alfalfa hay crop practically all put up in irrigated area, with farmers very busy irrigating beets and beans. Livestock in good condition. Range in good shape. Practically all lambs contracted. Cricket fighting campaign over, as farmers are busy harvesting.

* * * * *

Helena, Montana,
August 11, 1937.



THIS MAP SHOWS THE PERCENTAGE OF NORMAL PRECIPITATION THAT HAS OCCURRED IN MONTANA DURING THE FIRST FOUR MONTHS, APRIL TO JULY, INCLUSIVE, OF THE 1937 CROP GROWING SEASON.

THE UPPER OF EACH TYPED PAIR OF FIGURES INDICATES THE ACTUAL AMOUNT OF PRECIPITATION THAT OCCURRED IN THAT RESPECTIVE AREA DURING THE PERIOD APRIL TO JULY; THE LOWER FIGURE OF THE PAIR INDICATES THE NORMAL PRECIPITATION FOR THE SAME PERIOD.

LINE ARE DRAWN FOR EACH 10 PER CENT OF NORMAL.

U.S. WEATHER BUREAU,
HELENA, MONTANA.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau—Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 17, 1937.

Issued jointly by the Bureau of Agricultural Economics and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

The week was warm and dry, and generally favorable for haying harvesting, and threshing operations, as well as for the maturing of irrigated crops. It was unfavorable, however, for the growth of dry land pastures, gardens, corn, and other late feed crops, which are generally reported in need of good rains. Showers occurred on two or three days early in the week, but were too light and scattered to directly benefit soils and crops or interfere more than briefly and locally with seasonal harvesting operations. Temperatures reached maxima as high or higher than during the preceding two weeks, with readings in excess of 100° recorded in the eastern part of the State on the 13th, 14th, and 17th.

Harvesting of both dry land and irrigated grain crops continued to make good progress. Winter wheat and rye have been harvested, as well as the greater part of the spring wheat and other spring grain crop. Late irrigated grains are filling and ripening, while wheat planted in north-central sections following the drouth-breaking rains in June has passed the blooming stage and stands a good chance of maturing before frost. While good yields of grain have been reported on drylands in Carbon and some other southern and western counties, in general, dry land yields have been mostly low. Considerable abandonment of dry land grain has been reported from eastern counties heretofore considered in this year's production area. Some fields are being cut only for the purpose of recovering seed. Irrigated grain crops have yielded well so far, with a little difficulty experienced in harvesting where fields have lodged. Grain fields require little or no further irrigation. The supply of irrigation water for pastures, alfalfa, and gardens is short in several sections, but no serious shortage exists. Peas have been harvested, and some of the crop threshed with good yields except in the Flathead district. The apple crop is reported in good condition. Raspberries, cherries, and late strawberries are being marketed in the west. Sugar beets and potatoes continue showing well.

Ranges are generally ample, but have become quite dry. Grass in most areas is cured and is short except in the higher elevations. Weedy ranges in the east have burned badly, and fall and winter feed here and in the northeastern areas will be short. In most of the southern and in extreme north central areas of the State, where the drouth of a year ago thinned stands, the native and range grasses are seeding well. Hay is being imported into northeastern Montana from eastern North Dakota, and early use of roughage and concentrates is expected in some of the poor feed sections. Farmers continue putting up thistles for hay. Alfalfa and clover seed is setting heavily in western districts.

Livestock are mostly in good condition. Some are being moved to fall and winter grazing areas. Seasonal shipments are under way in many sections, but fall movement has not begun yet. Substantial reduction in livestock numbers taking place in the eastern drouth districts.

Grasshopper damage to range grass and standing grain continued in eastern and northeastern drouthy areas.

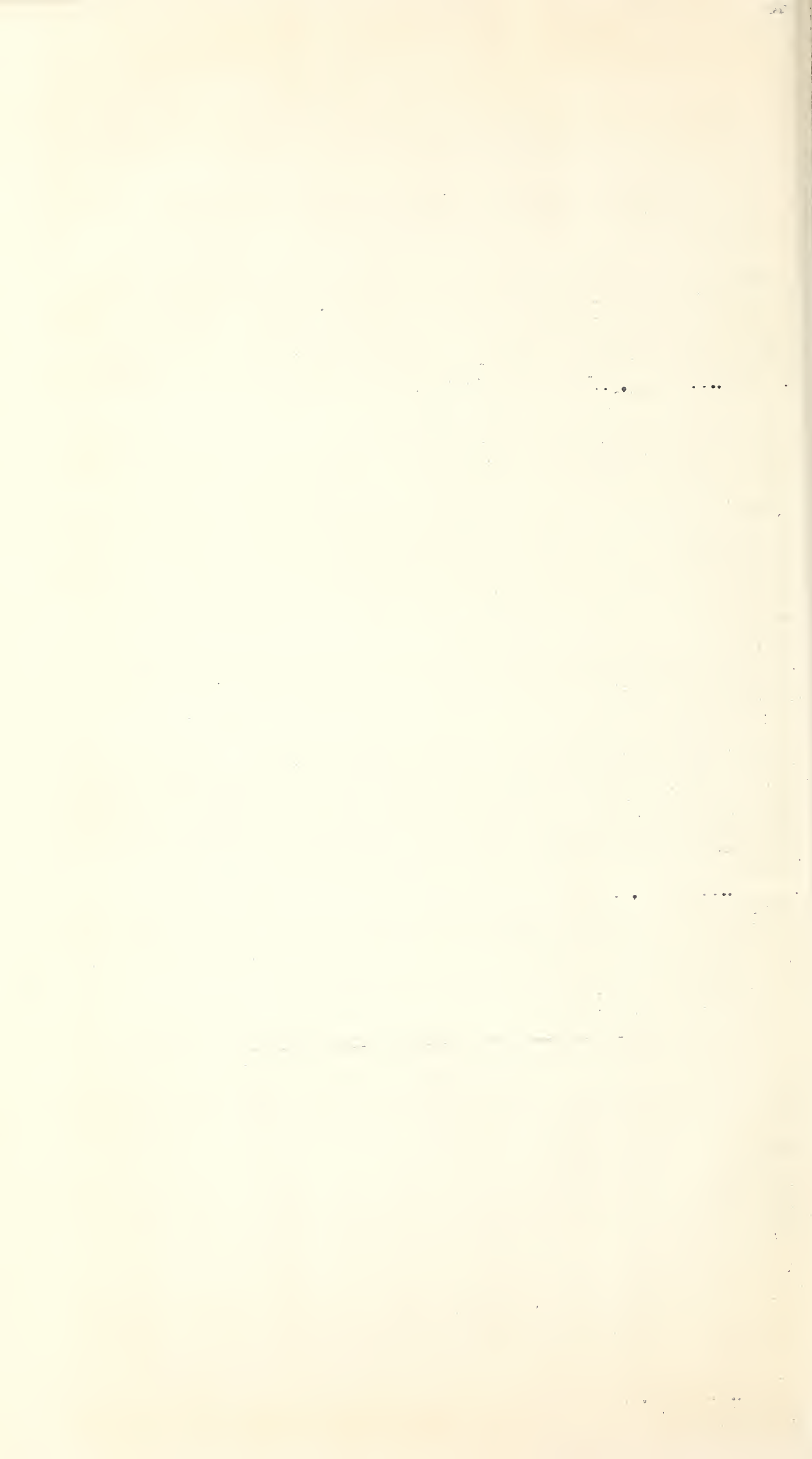
TEMPERATURE AND PRECIPITATION DATA, WEEK ENDING AUGUST 17, 1937

Station	Temperature		Sunshine % of Possible	Precipitation (inches and hundredths)		
	Highest	Lowest		Total This week.	Total since April 1, 1937.	Total since Apr. 1 to Aug. 18, 1936
Billings	100	53	*	0.03	6.95	4.94
Bozeman	88	46	*	T	9.50	5.83
Cut Bank	88	34	*	0.01	6.51	6.32
Fort Peck	97	52	*	0.15	4.33	2.37
Glendive	107	49	*	T	6.49	4.84
Great Falls	94	43	*	T	5.49	4.47
Havre	94	44	78	0.03	7.07	3.54
HELENA	91	55	82	0.02	5.16	5.54
Kalispell	86	42	84	0.11	5.89	4.32
Lewistown	92	41	*	0.10	6.62	6.88
Malta	93	48	*	0.14	6.60	3.19
Miles City	104	58	74	T	6.62	2.73
Missoula	92	46	80	0.01	3.68	4.77
Poplar	99	52	*	0.02	5.31	3.88

*No data.

Series 1937 - No. 19.
Helena, Montana.
August 18, 1937.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Bureau of Agricultural Economics.



The following county summaries of crop conditions for the week ending Aug. 14, 1937, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BEAVERHEAD: No rain, hot winds, frost at night in higher valleys. Pea crop being cut. Second crop of alfalfa short of irrigation water. Wild hay harvest in full swing with fair yield. Very short hay crop in Horse Prairie section. Some lambs sold at 9¢. Two or three clips of wool sold the past week. Activity in wool very slow. Livestock in good shape. Some ranges showing damage from crickets and grasshoppers.

BIG HORN: Extremely warm and dry the past week. Harvest advanced; combining nearly done; threshing under way. Dryland wheat yielding somewhat less than anticipated. Valley crops especially good. Cultivated crops making splendid progress. Water short on the Little Big Horn River. Range ripened and cattle in fine condition, many of which are going to regular market. Labor balanced.

BLAINE: No precipitation. Warm, sunshiny days, with cool nights. Grain crops in the valley being harvested, with good yields reported. Second cutting of alfalfa well under way. Sugar beet and potato crops in valley very good. Livestock in good condition.

CARBON: Only trace of precipitation during week. Threshing of grain in full progress, with yields of 20 to 25 bushels per acre of wheat being reported for dryland sections. Cutting of grain in Luther section still in progress, where considerable amount is lodged. Livestock in fair condition.

CASCADE: Cool, cloudy weather, with a few light showers has made ideal growing conditions for all crops. Insect damage has been reduced to the minimum and all crops have made normal growth. Second cutting of hay is about 50% in the stack. Combining of winter wheat well under way. Livestock in good condition.

CUSTER - POWDER RIVER: Continued warm, with no precipitation. Harvest of dry land crops complete, with most grain going to hay. Dry land wheat yielded an average of 3 bushels per acre. Wild hay making fair to good yields where irrigated. Second crop of alfalfa now being cut. Recent hail storm destroyed forage crops and prospects of alfalfa seed under irrigation. Irrigation water still sufficient. Cattle, sheep, and horses doing well, but range is dry and weedy areas burned. Range in southern Custer County and most of Powder River County good. Water ample.

DANIELS: No precipitation fell during the week. Moderately warm temperatures. Damage done by grasshoppers and also lack of rainfall has abandoned all hope of feed from late planted feed crops. Livestock shipments increasing due to lack of feed. Farmers cutting herds down to only one or two milk cows. Some WPA laborers were put to work this week. Many more in need of employment. Webworms and grasshoppers damaging gardens to a great extent.

DAWSON: Seasonably warm; no precipitation. Harvesting of crops is under way over the entire county, with a small acreage having been completed. Some combining is going on, but headers are more common. Only a small portion of the acreage is being gone over, there being about 75% abandonment. Harvesting is primarily for seed. Many of the corn fields continue to look favorable, with feed prospects encouraging. Grazing conditions in a large portion of the county continue to be quite favorable, although the north portions are getting on short rations. With the number of stock reduced, the situation is holding up fairly well.

FALLON - CARTER: Continued hot dry weather prevailed. Corn crop could stand some moisture. Crop harvest in full swing, with yields running from 3 to 10 bushels. Grain filling and ripening rapidly. Grasshoppers continue to do some damage on young corn. Livestock condition good. Lambs contracted from 8¢ to 10¢. Those contracting early for 8 to 8½¢, while those recently 9 to 10¢. Labor situation not as acute as it was a couple of weeks ago.

FERGUS: Days hot; nights cold, with near freezing temperatures. Harvest of both spring and winter wheat well under way, with a few crops reported as high as 15 bushels. Most crops run 3 to 5 bushels, with a good bit of acreage not being harvested. Quality of wheat very good. No second cutting of alfalfa except on irrigated land. Grasshoppers damaged range to large extent in the last two weeks. Livestock moving out to market, most of it in very good condition. At least 500 farmers will need work or some other assistance to get through the winter, due to crop failure & feed shortages, which forced the disposition of livestock last year.

FLATHEAD: Weather unsettled, with cool cloudy days predominating. Threshing of peas nearly completed. About 50% of the grain crops in shock. The other 50% will be harvested during the next week or ten days. Yields of wheat throughout the county will average somewhat higher than the last two years, with only negligible acreage abandoned. Potatoes and gardens have benefitted greatly from recent moisture. The second crop of hay is good and is being put up at the present time. Condition of livestock continues good. All ranchers putting up an ample feed supply for the winter. Labor adequate.

GARFIELD - PETROLEUM: Warm, with no precipitation. Growing conditions poor due to lack of moisture. Corn is generally making very poor progress due to late planting in many instances and insufficient rainfall. Thistles and other available forage is being put up for hay wherever available. Very little movement as yet in cattle. Sheep men beginning to move toward fall and winter pastures where they are available.

HILL: No precipitation during week. Harvesting of wheat well under way. Yields from 4 to 12 bushels reported. A good deal of the wheat will be headed this year. Protein content rather high. Ranges drying up and fall pasture will be short. Livestock in just fair condition, with no start to market as yet. Labor balanced.

(Continued on Page 2.)

JUDITH BASIN: Growing conditions very poor. Winter wheat harvest well along. Yields running from 2 to 12 bushels per acre. Less than 30% of the winter wheat acreage will be harvested. Spring wheat harvest will not get under way generally for a few days. Soil moisture below normal. Hopper damage heavy. Weed growth, primarily thistles, will interfere with harvest in many cases. Considerable acreage of thistles being cut for hay. Considerable livestock being moved from county, primarily by truck and local buyers. Most of stock is in fair condition. Heavy reduction in breeding herds expected due to lack of winter feed. Ranges very short. Feeding of hay and concentrates will start early. About 50% of the farmers will harvest very little crop and are now seeking employment.

LAKE: Scattered showers over entire county. Cool and cloudy most of week. Showers. Have increased irrigation water supply. Combining slowed up because of showers. Second crop alfalfa below normal. Harvesting in full swing. Grain yields and quality slightly above average. Truck and garden crops in good condition. Livestock in good shape. Lambs being sold. Range condition good. Farm labor scarce.

MADISON - JEFFERSON: Precipitation slight; weather hot; some strong winds; growing conditions good where moisture is sufficient. Grain harvest in full swing on dry and irrigated lands. Late rains improved grain crops considerably over June outlook. Harvesting of wild hay progressed rapidly during past week, with the favorable weather conditions. A few are starting to put up second crop of alfalfa. Conditions good, with some lambs being contracted at 8¢ to 9¢. Good range conditions over most of the two counties give promise for marketing of high quality lambs and steers this fall.

MISSOULA: Warm weather. Some showers first of week. Good growing conditions. Harvesting of all spring grains in full progress. Threshing started. Yields fair. Sugar beets and potatoes making good growth. Raspberries, cherries, and some strawberries coming on market. Yields fair to good. Second cutting of alfalfa in progress, with yields fair to good. Upper ranges generally in fair to good condition. Lower ranges and pastures short.

MUSSELSHELL - GOLDEN VALLEY: Local showers, with extreme continued heat; prevailing hot winds. Winter wheat harvest practically over; yields comparatively small over the entire area. No other small grains will be harvested. Some corn and other small grains will be cut for hay, however. Livestock in very good condition; there is still plenty of grass and water.

PARK: Rather cool cloudy weather beginning of week, with exceedingly hot drying winds latter part of week. Hot weather will somewhat damage grain, even though it is almost ripe and not maturing and filling as well as it should under normal conditions. Second cutting of alfalfa just beginning. It is damaged somewhat by grasshoppers, but a fair crop is anticipated. Very good condition of livestock; forage ample to carry them through. Some cattle already sold; shipping will begin soon. No shortage of labor; ample for farm needs. Grasshopper infestation still quite serious; damaging second crop of alfalfa; in some places very seriously affecting wheat and oats just before harvest.

PHILLIPS: Light local showers in southern and central part of county, with cooler weather. Harvesting in full swing, but crops light and spotted in dryland areas. Some areas have total failure, while others will produce about a 25% crop. All crops in valley are good. Continued need for Works Projects to carry through winter. Livestock condition generally good. Sufficient feed, grass, and water in most localities.

PONDERA: Weather cloudy and warm, with gentle winds. Combining of wheat began first part of week and first yield indicated an average of 10 bushels per acre, of 58 lb. Northern Spring. This was on early seeding. Reseeded wheat after the flood and heavy rains in June shows strong possibility of making good yield. Practically all reseeded wheat is in bloom, or just completed blooming. Some oats and barley has been harvested, both with the combine and a few small patches with a binder. No reports on yields to date. Some grasshopper damage noticed in oats fields which forced early cutting. Range grass is in fairly good shape and will afford approximately 30 days of winter grazing, full capacity. On the whole, livestock is being held with very little movement. Labor balanced.

PRAIRIE: Very hot and dry. No precipitation. Harvesting nearly over and threshing about to start. Yields vary from 4 bushels to nearly 10 on the combined fields that remain in production. Corn continues to look good, but needs rain. Grasshoppers eating range grasses into the ground and are laying eggs. Livestock is in good condition. Labor supply ample.

RICHLAND: Ranges and thistles drying up. Corn in some fields is the only crop that is still making growth in dryland areas. Sugar beet crop and other valley crops under the irrigation project are making nice progress. Most farmers have now completed putting up the second cutting of alfalfa hay. Some livestock will move within the next month. Farmers in general are trying to salvage all the feed possible, but most of them will not be able to get enough feed, including Russian thistles, to take their stock through the winter, and will be forced to sell their breeding stock to the lowest point in the history of the county. Some WPA projects started in the county the forepart of week. However, there is still a large surplus of dryland farmers needing employment as the present quota of 262 men in the county is not nearly enough to take care of the needs.

ROOSEVELT: No precipitation; warm days and cool nights. Growing conditions not too favorable for feed crops. Strong winds first of week. A few fields of millet being cut for hay. Soil blowing on summer fallow fields in east end of county first of week. Cutting Russian thistles for winter feed drawing to a close.

ROOSEVELT: (Cont'd.) Infested area covers practically entire county. Many farmers gone to Dakota harvest areas. Some WPA work started on roads and bridges damaged by recent flood water.

ROSEBUD: No precipitation during week. Irrigated crops making rapid growth. Dry land corn and late forage crops continued to deteriorate from drouth and excessive heat. Sugar beets and irrigated corn making rapid growth. Combining of dry land grain complete, with disappointing yields and quality. Harvest of irrigated grains nearly completed. Livestock in best condition for several years. Normal movement of cattle to market during week. Lamb contracting slowed up during week. Range grass curing rapidly.

SANDERS: Precipitation .25 inch. Generally cool and cloudy, with light scattered showers. Grain threshing started. Quality of grain generally good, but low yields due to lack of moisture. Second cutting hay mostly in stack, with good yields under irrigation and very poor on dry lands. Alfalfa and clover seed crops setting heavily. Potatoes very good. Gardens generally in good condition. Fruit crop good. Livestock in good condition. Heavy cattle shipment to market continues. Most fat lambs contracted to buyers and shipments starting.

SHERIDAN: No precipitation during week. High temperature continues. No change in crop conditions. Russian thistles are being cut for hay. Movement of livestock out of the county continues. Very little employment available in the county. Need for additional work relief is apparent. Considerable demand for hay and some grain feeds. Hay is being moved into the county from central and eastern North Dakota.

STILLWATER: Weather generally hot and dry, with hot winds all week. Harvest nearing completion in most sections of the county; very good yields being reported from irrigated section. Livestock in good condition. No surplus labor.

SUN RIVER PROJECT: Weather conditions warm enough for good crop maturity. Light showers are reducing the number of fall irrigations usually needed. Most crops are coming along in very good shape, with harvest of seed peas and second cutting of alfalfa started. Some grains are quite late and there may be some frosted fields. Range has remained adequate for most operators. Ample supply of labor at the present time.

SWEETGRASS: Weather hot, with drying winds which mature crops quickly. Promise of good yields of irrigated crops. 60% of irrigated grain harvested. Threshing starting on dry land crops, with very small yields. Second cutting alfalfa maturing rapidly. Prospects of a short crop due to hot winds and shortage of irrigation water. Pastures matured. Considerable damage to finer undergrowth by insects. Livestock in good condition. Fat dry cows being marketed. Livestock on reserves reported doing well. Lambs 90% contracted.

TETON: No precipitation. High temperature for week 88°, low 46°. Harvesting of spring wheat started, with reported yields in Diamond Valley of between 5 and 6 bushels per acre harvested. Yields in Collins area running in neighborhood of 2 bushels per harvested acre. By the end of next week, harvesting will have been started in most dry land areas of county. Haying of wild hay practically completed. Livestock in good condition, but no movement to market as yet.

TOOLE: Cloudy most of week; no precipitation. Some crops being harvested. Wheat yields vary widely, and range from 4 to 40 with an average of from 7 to 12. Rains of last week have delayed harvest in many cases. Many crops being headed, due to uneven ripening and weed growth. Cattle and sheep in good shape; some operators looking for ewe lambs to winter. Harvest labor is rather scarce, but sufficient on hand at present.

VALLEY: Blue joint harvest practically completed, with very short crop. Second cutting of alfalfa completed. Wheat harvest in full swing in the irrigated section and practically completed in dry land areas. Dry land wheat fields are very spotted, and yields on harvested acres range from 3 to 4 bushels. A few outstanding fields in the dry land area run as high as 6 bushels. About one-third of millet and forage crops that were seeded late will make feed. Corn acreage, which was increased this year, is looking very good, particularly in the irrigated section, and a few fields of corn in the dryland section will make feed. Practically all lambs sold as feeders at this time. A few ewes being sold or moved to market, and in a few cases to pasture. Range conditions are fair to nothing. Water shortage in some areas. More labor than needed.

WHEATLAND: Scattered showers early in week, followed by extremely warm weather; then latter part cool, with shower. Spring wheat harvest well under way. Some areas show yields slightly above the average, and the other areas have practically no yield.

WIBAUX: No precipitation. Hot weather. Grasshoppers still doing great deal of damage. Some combining and threshing during the week. Yields poorer than anticipated, due mainly to high winds breaking down grain and grasshoppers. Corn beginning to burn badly and will yield much less feed than the prospects a short time ago. Thirteen carloads of cattle shipped out this week. Most of the lambs have been contracted at 9¢ per pound. Ranges holding up in some places, but getting short in the greater portion of the county.

YELLOWSTONE: Precipitation for the week, 0.03 inch. Hot and dry all week, with quite cool nights. Winter wheat harvest in dry land sections about 60% completed. Some threshing being done, with yields running from 5 to 20 bushels per acre. Spring wheat harvest in dry land sections just starting. Threshing of grain in irrigated sections in full swing. Second crop of alfalfa completed. Range grass in good condition. Livestock all in very good condition also.

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CHOUTEAU: Harvest under way in Big Sandy area for one week. Spring wheat yielding 5 to 8 bushels per acre. Winter wheat about half harvested. Weather continued dry; good for harvesting. Some crickets on the move, but in general under control.

GALLATIN: Weather generally fair; a few local showers; medium temperatures. Second cutting of hay completed, with prospects for third cutting in some places. Grain harvest in full swing. Seed peas ripening rapidly.

LEWIS & CLARK - BROADWATER: Light scattered showers; generally good growing conditions. Good harvesting weather. Yields spotted. Second cutting of alfalfa being harvested. Beet crop still rated as fair in Broadwater County. Potato yields in Helena Valley will, in general, be good. Very small numbers of livestock being shipped early because of relatively good feed conditions. Hay and grass supplies for winter will be about equal to last year, with variations in parts of both counties.

MEAD: One good shower; temperature high. Grain and hay fair; grass curing only on drier spots. Fall rye threshing 4 to 12 bushels per acre. Livestock doing very well. Labor demand still exceeds supply. Insect damage decreasing.

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Helena, Montana.
August 18, 1937.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau—Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 24, 1937.

Issued jointly by the Bureau of Agricultural Economics and the Weather Bureau.
Office: Fourth Floor, Federal Office Building, Helena, Montana.

The week was quite warm, except for the last day, with temperatures averaging well above normal and readings of 100°, or higher, reported from the eastern parts of the State on the 21st, 22nd, and 23rd. Precipitation during the week was negligible, making the third successive week this month without appreciable moisture. While soil moisture reserves have decreased steadily since the first of the month, conditions still remain considerably better than last year at this time, with the exception of some extreme northeastern and extreme middle-western areas.

Weather conditions were ideal for haying, harvesting, and threshing, except for one or two days with high winds. It was too hot and dry, however, for satisfactory growth of unirrigated crops. Lack of moisture for germination was detrimental to seeding of winter wheat in some important areas, although preparation of soils on a large scale for this purpose continued. Hot winds rapidly ripened late growing grains, and harvesting started in the later-than-usual maturing north-central sections. Harvesting of small grains is nearing completion in most sections, and threshing is largely in full swing. Dryland grain yields, as a rule, continue light, although best areas in Custer and Powder River Counties have produced 10 to 15 bushels of wheat an acre, Carbon County 20 to 25 bushels, and Gallatin County as high as 40 bushels. The test weight of wheat is generally good. Irrigated grain, much of which remains to be harvested, has produced average to better than average yields. The bean crop is very good, but owing to retarded growth early in the season, will require another three weeks free from damaging frosts for maturing the crop. Sugar beets are making good progress, with stands generally reported excellent. Cutting and threshing of seed peas continues, with fair to good yields. Early potatoes are being dug and trucked to market. Corn on drylands has deteriorated because of drouth; it is good on irrigated land and cutting for fodder is under way in some sections. The small fruit harvest is practically completed. Late fruit is reported in good condition, with early apples already moving into local markets.

Ranges and pastures continue drying up, and are generally in need of good rains. Prospects for wintering livestock in northeastern and some central sections are poor. Hay continues to be shipped into the eastern portion of the State. Livestock are mostly in good condition, although losses among horses from sleeping sickness are occurring in eastern counties. Lambs are in fine condition. Some sales activity among stockmen was noted in all sections, but no large movement has started from areas where feed supplies have remained adequate. Waterholes are going dry on eastern ranges, where no appreciable rain has fallen since the 18th of July.

While grasshoppers continue doing some damage to alfalfa and ranges in eastern areas, they are reported to be slowly disappearing. Insect control work has about ceased.

TEMPERATURE AND PRECIPITATION DATA, WEEK ENDING AUGUST 24, 1937

Station	Temperature.		Sunshine % of Possible	Precipitation (inches and hundredths)		
	Highest	Lowest		Total This week.	Total since April 1, 1937.	Total since Apr. 1. to Aug. 25, 1936.
Billings	98	51	*	T	6.95	5.07
Bozeman	90	40	*	0.00	9.50	5.83
Cut Bank	90	41	*	T	6.51	8.45
Fort Peck	102	48	*	T	4.33	2.73
Glendive	103	45	*	0.02	6.51	5.62
Great Falls	94	42	*	0.00	5.49	4.61
Havre	98	46	86	0.11	7.18	3.88
HELENA	90	47	94	0.00	5.16	4.34
Kalispell	86	40	92	0.07	5.96	5.54
Lewistown	94	38	*	0.00	6.62	7.26
Malta	99	40	*	T	6.60	3.78
Miles City	100	50	90	0.07	6.69	2.85
Missoula	94	44	88	0.01	3.69	4.77
Poplar	101	45	*	0.00	5.31	4.93

*No data.

Series - 1937 - No. 20.
Helena, Montana.
August 25, 1937.

W. E. Maughan, Weather Bureau.
Jay G. Diamond, Bureau of Agricultural Economics.

The following county summaries of crop conditions for the week ending August 21, 1937, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BEAVERHEAD: No precipitation. Warm days; cold nights. Some operators finished haying in wild hay sections. Most of the pea crop cut. Few started second crop alfalfa. 85% of lambs sold, with the top at \$9.40. Livestock in good shape, but ranges are drying up. A few steers sold.

BIG HORN: No precipitation. Continued warm and dry, with strong winds prevailing. Harvesting nearly completed. Estimated loss by crickets reduced to about 5%. Valley crops continue to look very good. Beets making good progress. Livestock and range in good condition. Labor balanced.

BLAINE: A severe hail storm passed thru the county last Friday evening, doing considerable damage to crops in the Valley and also in the northeast corner where there was a 100% loss in a strip approximately 4 miles wide and 12 miles long. Damage in the valley ranged from 10% to 75%. Harvesting in general progress in all sections. Yields on dryland are very light although the wheat that is being harvested has a good test weight. Dryland crops running from 1 to 8 bushels where crops are being combined. Livestock in good condition with range grass fair. No stock has yet been moved to market. Mountain ranchers are reporting fairly good crop of second cutting alfalfa. With exception of local areas, most ranches will have sufficient feed to carry their stock thru the winter.

CARBON: Weather has been reported as moderately warm during the day, with cool nights, which are causing some concern to corn growers. Threshing of dry land crops nearing completion in the northern and eastern portions of the county, with reported yields running from 20 to 25 bushels. Very good yields of crops under irrigation were also reported. The growth of beans was somewhat retarded by heavy rains and cool weather in June and some concern is felt by a few whether the majority of the beans will mature before frost comes. Very good stands of beans reported in most sections. Beet crops doing well. Livestock in good condition; plenty of pasture. Cricket control work discontinued.

CASCADE: Varied weather conditions have prevailed, ranging from a low ^{of} 73° to a high of 94° with no precipitation. Wheat harvesting well advanced in dryland areas, with from very poor to excellent crops being harvested on the small acreage left after abandonment caused by winter killing and blowing. Late seeded spring wheat is yielding only light crops and in many cases nothing. Crops on irrigated land are good, with normal yields of alfalfa hay and the outlook for better than average yields of sugar beets, potatoes, and seed peas. Livestock in good condition, with ample feed available for all stock left in the county. Labor normal. All insect control work has stopped and no appreciable amount of damage has resulted this year from either grasshoppers or crickets.

CHOUTEAU: Winter wheat harvest completed except for scattered farms. Continued dry with above normal temperature for this time of year. Grasshopper damage severe in some areas; some spreading of poison. No reports of cricket movement. Large number of applicants for R. A. grants. WPA work on roads under way.

CUSTER - POWDER RIVER: Hot weather for a part of week followed by cooler days and nights the latter part. No precipitation. Dry land crop harvest practically complete. Some wheat making 10 to 15 bushels in Powder River county, where rainfall has been normal or above. Other areas generally much poorer. Haying continues, with bluejoint making one ton per acre or better where flooded. Water being rotated in Tongue River ditch due to shortage, but supply looks sufficient for balance of crop season. Ranges dry and need rain. Water getting short in some localities. Stock doing well, with some fat cows moving to market. Ranges weedy and prospects for wintering livestock are very poor.

JUDITH BASIN: Severe hail in small areas. Winter wheat harvest well under way in three small areas. Yields running from 2 to 20 bushels. Most of the county will harvest only scattered crop here and there. 50% or more of the seeded acreage will have complete crop failure. Some thistles and grain now being cut for winter feed. Soil moisture very low. Grasshopper damage very heavy on range lands and north portion of the county. Shipping of livestock to market has started. Most of livestock will arrive at market in fair condition. Heavy reduction in livestock expected and feed importations will be necessary to feed breeding stock. About 50% of the farmers in the county are or will be seeking employment within the next 15 days.

LAKE: Continued warm; no precipitation; some winds. Harvesting of dryland crops nearly completed. Irrigated crops making excellent growth. Second crop of alfalfa largely in stack. Clover seed setting heavily. Grain harvest nearly completed on irrigated farms. Gardens generally in good condition. Livestock in good condition. Lambs being sold and contracted.

LEWIS & CLARK - BROADWATER: Winter wheat harvest well along toward completion. Normal harvest of spring wheat under way. Second cutting alfalfa and wild hay going into the stack with the wild hay harvest mostly completed. Livestock condition good. Livestock movement to market seasonal. Range feed drying, but furnishing fair feed.

MADISON - JEFFERSON: Hot and dry throughout week and warm winds ripening crops rapidly and drying up pastures and range. No precipitation. Harvesting of grain crops progressed rapidly during week. Combines busy, but no threshing as yet. Dry land crops fair, with irrigated grains fair to good and in most cases better than previously expected. Cutting and stacking of second crop alfalfa has started in places. Most of wild and meadow hays are in the stack. Harvesting of early potatoes is well under way, with crop being trucked to markets and netting growers about \$1.15 per hundred. Livestock conditions remained good throughout the week, with little activity reported in the sale of lambs or wool.

(Continued on Page 2.)

MEAGHER: No rain; wind; temperature moderate. Grain crops fair. Grass curing. Livestock excellent. Big lambs sell at 9¢. Top calves 9¢. Labor demand exceeds supply. Hopper damage 50% to 90% in some localities. Other insect damage on decline.

MISSOULA: Hot days; cool nights. No precipitation. Excellent harvest weather. Haying mostly completed. Yields less than normal. Harvesting practically completed; threshing well along. Yields about 30% to 60% of normal on dry land and 80% to 100% on irrigated land. Sugar beets and potatoes making good growth. Small fruit harvest practically completed. Early apples coming on market. Upper ranges in fair condition; lower ranges and pastures short.

MUSSELSHELL - GOLDEN VALLEY: Continued heat during the day, but the evenings are remarkably cool. A few very light showers have been noted in some sections of the two counties. The corn and cane crops look fairly good in some sections. It is remarkable how growth of these crops has progressed with such a moisture deficiency. Livestock in good condition; there is plenty of feed and water.

PARK: Warm weather prevailed, with cool nights. Binding about half completed, with standing grain ripening fast. Yields from 8 to 30 bushels reported, but threshing not general yet. Grain and second crop alfalfa both showing damage from hoppers. Livestock in good condition. Labor balanced.

PHILLIPS: Continued dry weather, but cooler latter part of week. Combining grain in full swing. Will probably get seed back. All valley crops up to normal. Rain needed to refill water holes in some areas. Range holding up. Winter feed will have to be shipped into Whitewater area. Condition of livestock good.

DANIELS: No precipitation during week. A few windy days during week, resulting in some soil blowing. Some Russian thistles still being harvested for feed although they are getting quite ripe. It is doubtful if feed crops planted after the July rains will make hay. Most of them will be used for pasture. Grass lands making slow recovery in some spots of the county. Some livestock movement to market. Some also being moved to other pastures where winter feed is assured. Several farmers reporting losses in horses due to Encephalomyelitis, or sleeping sickness. Approximately 125 men are being employed by WPA, most of them working on road projects. The sugar beet webworms have nearly all disappeared.

DAWSON: Weather seasonal. Harvesting well along. Threshing under way, with yields light. Growers continue to gather roughage. Lambs generally in good condition and heavy. No particular change in stock situation.

FALLON - CARTER: Continued hot dry weather prevailed. Corn crop in need of moisture. Most all crops harvested. Greatest percent of grain crops cut with header. Livestock condition good. Past week outbreaks of Encephalomyelitis have occurred among the horses in the counties. Much concern is expressed over this disease. No shortage of labor at this time.

FERGUS: Dry during week. Good harvesting weather. Many farmers practically through with harvest. Wheat average yield for entire acreage not over 3 bushels. Quality very good. All available straw and Russian thistles being harvested for winter feed. Livestock moving to market from some areas. Movement will be fairly steady from now until October. Many farmers needing work immediately so they can get some reserve built up before winter makes it impossible to do work.

FLATHEAD: Weather hot and dry. Ideal weather for harvesting and threshing. Yields have been consistently good, running about 25% over county averages. The quality of the grain has been excellent. A few light frosts reported first part of week, but did very little damage. Truck crops are growing well and strawberries are producing a good crop of fall berries. The condition of livestock continues good. Winter feed supplies adequate.

GALLATIN: Only partly cloudy; no precipitation. Increased amount of drying wind. Grain harvest continues with binders and combines and some of the previously shocked grain being threshed. Second cutting hay stacked. Seed peas being harvested. Dryland yields of winter wheat as high as 40 bushels are reported. Pastures will retain rather high carrying capacity.

GLACIER: Cool nights; several reports of one-fourth inch ice in northern part of county. Days generally warm; few scattered showers and winds. Wheat maturing fairly well; however, due to some early blowing, some fields are patchy in maturity conditions. A few early fields being cut with binders, with some growers planning to swath their fields. A little apprehension is shown concerning frost-killed wheat from the later fields. Livestock in excellent shape; lambs and all kinds of beef moving at good prices. Will need combine men soon.

HILL: 0.07 inch precipitation during week. 60% of harvest completed. Wheat running from 4 to 12 bushels per acre; very few fields making up to 15 bushels. Weather ideal for harvest. Range is drying up and facing a possible range shortage before winter sets in. Livestock in fair condition with little movement toward market as yet. Labor balanced.

PRAIRIE: Warm and dry; nights cold. No precipitation. Harvesting completed and threshing about to start. Yields vary from 4 to 10 bushels per acre on combined fields. Grasshoppers beginning to lay eggs. Livestock in good condition. Labor supply is ample.

RICHLAND: No precipitation. Weather warm throughout week. No crops in the dry-land areas except a few fields of corn and there will not be a very good yield because of the damage done earlier in the year. All valley crops progressing nicely. Some damage done by insects earlier in the year, but not serious. Livestock continuing to move out of the county as ranges are very short and no feed is available in dry land sections.

ROOSEVELT: Light scattered showers first of week. Temperatures warm first of week and cool latter part. Millet and corn being harvested in scattered sections of county. All wheat harvested with estimated production of 5,000 bushels for county. Late planted feed crops need moisture to develop. Hoppers continue to damage feed crops and grass. Livestock being shipped from northwest and north central parts of county, where ranges dried up. Range varies from fair to good in south and east sections of county and most stock being held in these sections for the present. Light demand for hay. WPA work under way, partly relieving labor situation.

ROSEBUD: No precipitation. Sugar beets and irrigated corn continuing to make rapid growth. Record yield and acreage of sugar beets practically assured. Dry land corn practically dried up. Seasonal movement of cattle to market under way. Some stockmen considering taking advantage of favorable prices to liquidate some of their stock rather than purchase feed. Water holes beginning to dry up in some areas.

SANDERS: No precipitation. Generally clear and cool; light frost in few sections 15th and 16th, but little damage. Grain threshing under way. Some winter wheat seeding started. Soil moisture very low for germination. Water for irrigation very low. Hay crop short, but ample for winter feed requirements. Livestock in good condition. Heavy cattle marketing continues. Movement of contracted lambs begun.

SHERIDAN: Weather continues dry, with high temperatures. No change in crop conditions. Rain is needed for late pastures. Movement of livestock out of the county continues. Outbreak of Encephalomyelitis threatens horses of county and is causing some movement of horses out of vicinity. Employment is very scarce. No change in labor situation.

STILLWATER: Week characterized by warm days. No moisture during past week. Considerable part of dry land grains harvested. Threshing in full swing in irrigated part of county. Fair yields on dry land in most sections. Better than average grain yields on irrigated farms. Sugar beets and beans look good. Stock in good condition. Nearly all lambs contracted will average heavier than a year ago. Demand for all classes of cattle.

SUN RIVER PROJECT: No precipitation during the past week. Several days hot wind ripening grain. Night temperatures near frost. Seed pea harvest well under way. Grain fields ripening satisfactorily. Second cutting of alfalfa starting. There will be some demand for harvest help in the next three weeks.

SWEETGRASS: Weather hot, with drying winds. No precipitation. Crops maturing rapidly. Winter wheat crop on dryland is yielding 2 to 6 bushels per acre. A very few areas fortunate enough to receive showers at the critical time yielded 10 to 15 bushels. Spring dryland grains very spotted; average probably 6 to 8 bushels. All early irrigated grain in shock, with prospects of good yields. Threshing just starting. Late grains unmaturing. Second crop of alfalfa ready to cut. Prospects of short crop. Pasture and range mature. Damage from insects more evident. Livestock doing well. Lambs all contracted; also several lots of aged ewes; but cows moving to market at good prices. Demand for feeding cows and feeders.

TETON: No precipitation for week. Reports of light frost in eastern part of county. Harvesting of spring wheat in eastern part of county in full swing, with yields running between 6 and 8 bushels per acre. Harvesting in other parts of county just getting started, with none being harvested on the irrigated areas. Harvesting not yet started in the Pendroy area, where the best crops are for this season. Ranchers cutting out cattle, getting them ready for shipment.

VALLEY: The past week has been exceedingly warm. Practically no wind, and only a trace of precipitation. What small amount of dryland harvest there was has been completed. The highest yield about 8 bushels on one field. The majority of the small number of fields remaining for harvest averaged around 3 bushels. Under irrigation, wheat is averaging from 20 to 35 bushels. Second cutting of alfalfa has been completed. Blue joint harvest is over. By the end of the week, the blue joint seed harvest will be completed. Sugar beets making very good growth. Corn, under irrigation, will make considerable fodder, and if frost holds off another two weeks will make seed. Livestock in fair condition, but light in weight. Both cattle and sheep still moving out of the county. Practically all lambs sold at this time. Quite a few horses moving out the past two weeks.

WIBAUX: No precipitation. Weather somewhat cooler during week. Threshing and hayri nearing completion. Corn harvest, where high enough to cut, in full swing. Grasshoppers still very numerous. Cattle shipments increasing.

YELLOWSTONE: Warm days, with quite cool nights. No precipitation. With the exception of the northeast corner of the county, fair to exceptional crops of wheat and small grains are being harvested. Dryland yields of wheat range from 6 to 35 bushels per acre, with an average of about 18 bushels. Irrigated grains are yielding heavy in most cases, except under the B.L.&I. ditch, where some water shortages existed as a result of flood damage to the ditch. Beets and beans looking good and predictions are that better than average crop will be harvested. Livestock in good condition. Good feed supply on hand.